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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/744,400	04/09/2001	Maurice Fradin	BE-3969	5701
466	7590 03/10/2004		EXAM	INER
YOUNG &	YOUNG & THOMPSON		CORBIN, ARTHUR L	
745 SOUTH 23RD STREET 2ND FLOOR ARLINGTON, VA 22202)R	ART UNIT	PAPER NUMBER
AKLINGTOR	N, VA 22202		1761	

DATE MAILED: 03/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/744,400	FRADIN ET AL
Office Action Summary	Examiner	Group Art Unit
	ARTHUR L.	Group Art Unit
-The MAILING DATE of this communication appe	ars on the cover sheet be	neath the correspondence address -
eriod for Reply	~	
enda for Reply SHORTENED STATUTORY PERIOD FOR REPLY IS SET OF THIS COMMUNICATION.		
 Extensions of time may be available under the provisions of 37 C from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, such period shall, by de Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the term adjustment. See 37 CFR 1.704(b). 	a reply within the statutory min fault, expire SIX (6) MONTHS fro statute, cause the application t	mum of thirty (30) days will be considered timely. m the mailing date of this communication. b become ABANDONED (35 U.S.C. § 133).
Status	مد	
Responsive to communication(s) filed on	- 0 - 1	·
This action is FINAL .		
 Since this application is in condition for allowance excaccordance with the practice under Ex parte Quayle, 1 	ept for formal matters, pro 1935 C.D. 1 1; 453 O.G. 213	secution as to the merits is closed in
Disposition of Claims		•
Claim(s) (~(~	is/are pending in the application.	
Of the above claim(s)		
☐ Claim(s)		is/are allowed.
★Claim(s) (-(~		is/are rejected.
		is/are rejected. is/are objected to.
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1. Claims 1,3,4,7,8 and 12 are objected to because of the following informalities: Claims 1,3,4,7,and 8 are not amended properly since canceled subject matter must be crossed through rather than being bracketed as applicant has done in claim 1, line 14; claim 3, line 3 and 4; claim 4, line 3; claim 7, lines 3-8; and claim 8, lines 4-5. Also, in claim 1, line 6 and claim 12, line 6, "pieces" should be changed to "the pieces,". Appropriate correction is required.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-5, 7, 8, 11,and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fradin (5,017,393, col. 2-3 and claims 1-3). Applicant is referred to paragraph Nos. 6 and 7, paper No. 6. Further, finding the optimum surface area of the ultrathin layer (claims 1 and 12) would require nothing more than routine experimentation by one reasonably skilled in this art.
- 4. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fradin as applied to claims 1-5, 7, 8, 11 and 12 above, and further in view of Fradin et al (WO 93/14648 abstract), Linane et al (Fig 2) or Condon (2,752,252).

Applicant is referred to the reasoning set forth in paragraph no. 8, paper No. 6.

5. Claims 9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fradin as applied to claims 1-5, 7, 8, 11 and 12 above, and further in view of Fradin et al

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(French patent 2,683,124, Figures 2-4). Applicant is referred to the reasoning set forth in paragraph No. 9, paper No. 6.

- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
 - Claim 4 is indefinite in reciting "a piston" since it is not understood which piston is intended. Correction is required without new matter.
- 8. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

9. Claims 1-12 are also rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. There is no support in the original disclosure for "an average surface area greater than 20 cm²" (claim 1, last 2 lines and claim 12, line 10). According to applicant's remarks (page 8) support for this limitation is found on page 3, lines 12-14 of applicant's specification. However, this portion of the spec. discloses a surface area of "greater than 10 cm²",

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Correction is required.

10. Applicant's arguments filed January 2, 2004 have been fully considered but they are not persuasive. In the absence of unexpected results the claimed surface area is considered to be a result effective variable and is not deemed to be critical. While there is no direct evidence to support the assertion that vacuum control is conventionally used to apply and release a vacuum, if applicant knows of any other technique to perform such functions applicant is invited to make it of record.

With regard to the rejections of claims 6, 9, 10, motivation for the obviousness has been established in paragraph Nos. 8 and 9, paper No. 6.

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arthur Corbin whose telephone number is (571) 272-1399. The examiner can normally be reached on Tuesday-Friday and alternate Mondays from 10:30 am to 8:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Milton Cano can be reached on (571) 272-1398. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

A. Corbin/af March 5, 2004 ARTHUR L. CORBIN PRIMARY EXAMINER

315-04